



**PATENT**

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

**In re Application of:**

Frank L. Hall

**Serial No.:** 09/863,676

**Filed:** May 21, 2001

**For:** METHODS FOR PREPARING BALL  
GRID ARRAY SUBSTRATES VIA USE OF  
A LASER

**Confirmation No.:** 1281

**Examiner:** S. Heinrich

**Group Art Unit:** 1725

**Attorney Docket No.:** 2269-4718US  
(00-0316.00/US)

**Notice of Allowance Mailed:**

October 6, 2003

**CERTIFICATE OF MAILING**

I hereby certify that this correspondence along with any attachments referred to or identified as being attached or enclosed is being deposited with the United States Postal Service as First Class Mail on the date of deposit shown below with sufficient postage and in an envelope addressed to the Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

December 22, 2003  
Date

Signature

Deidra J. Pfeil

Name (Type/Print)

**AMENDMENT PURSUANT TO 37 C.F.R. § 1.312(a)**

Mail Stop ISSUE FEE  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, Virginia 22313-1450

Sir:

Please amend the above-referenced application as follows:

**Amendments to the Specification** begin on page 3 of this paper.

**Amendments to the Claims** are reflected in the listing of claims which begins on page 5 of this paper.

**Amendments to the Drawings** appear on page 8 of this paper and include both an attached replacement sheet and an annotated sheet showing changes.

**Remarks** begin on page 9 of this paper.

An **Appendix** including amended drawing figures is attached following page 9 of this paper.